

2019 Astrophysics Explorer Mission of Opportunity Program Library Change Log

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Note: If a document is posted out of sequence or is revised, it will be indicated via **highlighting** in this log.

November 13, 2020

Change Link for item 6 under Document Referenced by PEA changed to "Explorers Program Mission Assurance Requirements (MAR) Mission Risk Classification - NPR 7120.5 Class D, EXP-RQMT-0003 Rev B" and linked to 04_Rev08-22-2017SMEXAOMARClassD.pdf

July 17, 2020

Change Link for item 16 under Document Referenced by PEA changed to "Guidelines and Criteria for the Phase A Concept Study (updated 06/4/2020)" linked to 2019 Astro SMEX CSR Guidelines_17_July2020_rev2.pdf

June 22, 2020

Change link for item 14 under Documents Referenced by Salmon-3 to 2019-Astro-AO-Tables_22June2020

June 22, 2020

Add item 14. c "Table B3a: Total Mission Cost RY\$ Profile Template (*updated 6/22/2020*)" under Template tables in the Salmon-3 AO in Microsoft Excel under Documents Referenced by Salmon-3

June 4, 2020

Link for item 16 under Document Referenced by PEA changed to "Guidelines and Criteria for the Phase A Concept Study (updated 06/4/2020)" and linked to 2019 Astro SMEX CSR Guidelines_04_June2020_rev1_final.pdf

June 3, 2020

Item under Documents Referenced by CSR Guidelines added as “c. FAQs for Protecting Spaceborne Assets” and linked to FAQs for Protecting Spaceborne Assets 13-May-2020.docx

May 7, 2020

Item 3 under Program Specific Documents changed to “3. Guidelines and Criteria for the Phase A Concept Study (updated 5/7/2020)” and link changed to 2019 Astro SMEX CSR Guidelines_7_May2020.pdf

April 28, 2020

Item 3b under Documents Referenced by CSR Guidelines changed to “ICON L2 MDRA” [ICON L2 Project Requirements.pdf]

Item 4a under Documents Referenced by CSR Guidelines changed to “TESS L1 PLRA” [TESS_Level-1_Program_Requirements_HQ_Final_Signed_Copy Redacted+OCR.pdf]

Item 4b under Documents Referenced by CSR Guidelines changed to “ICON L2 PLRA” [ICON PLRA signed Redacted+OCR.pdf]

April 22, 2020

Changed link for item 16 under Documents Referenced by PEA to “2019 Astro SMEX CSR Guidelines_DRAFT_21Apr2020.pdf” (same document linked to the SMEX Program Library)

April 2, 2020

Renamed link for item 9c under Program Specific Documents to “Proposer_Requested_ISS_Resource_Table_v5_March_2019.docx” (same document linked to the SMEX Program Library)

March 26, 2020

Changed item 1 under Documents Referenced by CSR Guidelines (Step 2) to display Space System Protection Documents and added under it the original item “1. Security Requirements for Cryptographic Models, FIPS PUB 140-2” and linked to FIPS PUB 140-2.pdf and item “7. Space System Protection Standard, NASA-STD-1006”

March 25, 2020

Replaced link for Draft Guidelines and Criteria for the Phase A Concept Study (linked to 2019 Astro SMEX CSR Guidelines_Draft_23-24Mar2020.pdf)

March 23, 2020

Add file added under Documents Referenced by CSR Guidelines (for Step 2):

8. Conflicted Party List Template (linked to Conflicted_Party_List_(Rev_03_22_2020).xlsx)

March 18, 2020

Remove link under Documents Referenced by SALMON-3 for 13. NASA Inflation Tables

Additional files added under Documents Referenced by CSR Guidelines (for Step 2):

6. 2019 NASA Inflation Index for FY20 (linked to 2019_nasa_new_start_inflation_index_for_fy20_final2.xlsx)
7. Space System Protection Standard, NASA-STD-1006 (linked to Nasa-std-1006.pdf)

Update file linked to 9c under Documents Referenced by PEA:

- 9c. replace link with 09c_Proposer_Requested_ISS_Resource_Table_v5_March_2019.docx)

February 28, 2020

Additional files added under Documents Referenced by CSR Guidelines (for Step 2):

2. Sample International Agreements
 - a. With Belgium for Juno (linked to Juno_with_Belgium.pdf)
 - b. With France for MSL (linked to MSL_with_France.pdf)
3. Mission Definition Requirements Agreement (MDRA) Examples
 - a. IBEX MDRA (linked to IBEX_Example_MDRA.pdf)
 - b. IRIS MDRA (linked to IRIS_Example_MDRA.pdf)
4. Program Level Requirements Appendix (PLRA) Examples
 - a. IBEX PLRA (linked to IBEX_Example_PLRA.pdf)
 - b. NuSTAR PLRA (linked to NuSTAR_PLRA_L1.pdf)
5. Level 1/Level 2 Requirements Presentation (linked to PI-MastersForum_Level1-2s_JLeisner_pared2 200207.pdf)

February 6, 2020

Added Section Documents Referenced by CSR Guidelines (Step 2) with item “1. Security Requirements for Cryptographic Models, FIPS PUB 140-2” and linked to FIPS PUB 140-2.pdf

June 6, 2019

Under Documents referenced by SALMON-3, Item 8 now reads

8. Space Communications and Navigation (SCaN) Mission Operations and Communications Services (MOCS), Rev 2, effective 03/15/2019
 - a. S-Band Overview
 - b. Available Spectrum and Channel Limits by Allocated Service
 - c. Near Earth Network (NEN) Users Guide

May 31, 2019

Documents updated in the Cislunar Documents list, Under Item 15 Rideshare Documents

- a. Cislunar Cubsat requirements

May 14, 2019

Document "Explorers Program MAR, Item 6 under Documents referenced by the PEA updated.

April 27, 2019

Documents added to the list of Cislunar Documents, under Item 15 Rideshare Documents

- j. instructions for using the lunar gateway
- k. Gateway Communications
- l. Gateway Payload Interface Document
- m. Robotics Standards

April 11, 2019

Under Documents referenced by SALMON-3, Item 14 now reads

Template Tables in the SALMON-3 AO in Microsoft Excel

- a. Table B1: Example Science Traceability Matrix
- b. Table B2: Example Mission Traceability Matrix
- c. Table B3b: Total Mission Cost FY2020\$ Profile Template
- d. Table B4: Master Equipment List

April 8, 2019

Additional files added under Cislunar documents:

- a. Cislunar Cubesat requirements
- b. SLS Mission Planners Guide
- c. SLS EM-2 6&12U Accommodations (04/04/2019)
- d. SLS-RQMT-216
- e. GSFC-STD-7000A (GEVS)
- f. SMC-S-016
- g. Astrobotic - Payload User Guide v3 2018-10
- h. Master Lunar Delivery Service Payload Users Guide Rev 1.0 2019.2.4
- i. Commercial Lunar Payload Services Statement of Work

April 2, 2019

Under Documents Referenced by PEA

- a. Item 16. Draft Guidelines and Criteria for the Phase A Concept Study updated.

April 1, 2019

Under Documents Referenced by PEA

- a. Item 13. NASA Inflation Tables updated.
- b. Item 15a. Draft 2019 ESPA Rideshare Users Guide (RUG) updated.
- c. Item 15b. Accommodation worksheet 2019 Astro SMEX-MO DRAFT updated.
- d. Item 16. 2019 Astro SMEX CSR Guidelines_DRAFT_2019-04-01.pdf added.

Under Item 15, sub-heading Cislunar documents

- a. Added Item c. SLS EM-2 6&12U CubeSats Accommodations (03/27/2019)

March 29, 2019

Under Documents Referenced by PEA

- a. Item 15a. Renamed to Draft 2019 ESPA Rideshare Users Guide (RUG)
- b. Item 16. Guidelines and Criteria Phase A Concept Study copy.pdf removed.

Under NASA and Federal Documents

- a. Added Item 15. NASA Risk Management Procedural Requirements, NPR 8000.4B

March 27, 2019

Under Documents Referenced by PEA

- a. Updated Item under 15a: Astro SMEX-MO ESPA SIS DRAFT
- b. Added Item 15b: Accommodation worksheet 2019 Astro SMEX-MO DRAFT

Under Item 15, added sub-header Cislunar documents, with line items:

- a. Commercial Lunar Payload Services Statement of Work, and
- b. SLS mission planners guide 2018-12-19

March 21, 2019:

Under Documents Referenced by PEA

- (i) Item 5. NASA Space Flight Program and Project Management Requirements, NPR 7120.5E, document updated, Changes 1-16
- (ii) Item 6. NPR 7120.5 Class D document updated
- (iii) Item 11. Scientific Balloon Missions of Opportunity removed
- (iv) Item 13. Cubesat Documentation for Deployment from ISS removed

- (v) Document *LSP Small Payload Access to Space Catalog* updated to version (2/27/2019)
- (vi) Item 18. *Launch Services Risk Mitigation Policy for NASA-Owned and/or NASASponsored Payloads/Missions*, NPD 8610.7D, moved under Documents Referenced by SALMON-3
- (vii) Item 19. *Launch Vehicle Technical Oversight Policy*, NPD 8610.23C, moved under Documents Referenced by SALMON-3
- (viii) Item 20. *Guidelines and Criteria for the Phase A Concept Study* moved to end of section
- (ix) Rideshare documents grouped as Item 15.

Under Documents Referenced by SALMON-3

- (i) Item 9. *SMD Student Collaboration* document updated to SPD-31
- (ii) Item 13. *NASA Inflation Tables* document updated
- (iii) Items 18 and 19, *NPD 8610.7D (Change 2) and NPDF 8610.23C*, added

Under NASA and Federal Documents

- (i) Item 7. *NPD 8610.7D (Change 1)* removed; appears as referenced by PEA
- (ii) Item 9. *Dispenser and CubeSat Program Level Requirements Violation and Waiver Process* document removed
- (iii) Item 15. *SMD Rideshare Policy*, SPD-32 removed; appears as referenced by the PEA
- (iv) Documents *Range Safety User Requirements Manual Vol. 3 – Launch Vehicle, Payloads, and Ground Support System Requirements (AFSPCMAN 91-710)*, and *Standard Materials and Processes Requirements for Spacecraft (NASA-STD-6016)* added as Items 13 and 14.

February 4, 2019: “Proposer-Requested-ISS-Resource-Table_v4.docx” posted as an update to Documents Referenced by PEA item “9c. Proposer Requested ISS Resource Table”.

December 11, 2018: ATT_A_CLPS_SOW_Final[1].pdf posted as Documents Referenced by PEA item “22. Commercial Lunar Payload Services Statement of Work”.

December 11, 2018: RideShareOutlook-2019AstrophysicsMO-forDraftMO-(edit 12- 10-18)[2].pdf posted as update for Documents Referenced by PEA item “14. *LSP Small Payload Access to Space Catalog*”.

November 28, 2018: RideShare Outlook - 2019 Astrophysics MO - for Draft MO.pdf posted as Documents Referenced by PEA item “14. *LSP Small Payload Access to Space Catalog*”

September 20, 2018: Set-up MO Library with initial documents.